

## EAST Search History

| Ref # | Hits   | Search Query  | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|--------|---|---|------------------|---------|---------------------|
| S1    | 2      | "20050270022".pn.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/03/05<br>11:03 |
| S2    | 4      | "6633466".pn.<br>"6690553".pn.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/03/05<br>12:54 |
| S3    | 157982 | magnetoresist\$4 or<br>magnetoresistiv\$3 or<br>(magneto adj resist\$4)<br>or (magneto adj resistiv<br>\$3) or mr or amr or<br>gmr or tmr or mre  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/03/05<br>13:00 |
| S4    | 8165   | hard\$4 near3 magnetic<br>near3 (layer\$3 or film<br>\$3)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/03/05<br>13:02 |
| S5    | 41774  | cocrpt or cosm or cocr<br>or cocrta or copt or<br>fept or (co near1 cr<br>near1 pt) or (co near1<br>sm) or (co near1 cr) or<br>(co near1 cr near1 ta)<br>or (co near1 pt) or (fe<br>near1 pt) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/03/05<br>13:06 |
| S6    | 7836   | ((hard\$4 or magnetic)<br>near2 (layer\$3 or film<br>\$3)) same S5  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/03/05<br>13:08 |
| S7    | 10155  | ((soft\$4 or magnetic)<br>near2 (layer\$3 or film<br>\$3)) same ((co near1<br>fe) or (fe near1 ni) or<br>cofe or feni)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/03/05<br>13:09 |

|     |       |   |   |    |    |                     |
|-----|-------|---|---|----|----|---------------------|
| S8  | 12790 | soft\$4 near3 magnetic<br>near3 (layer\$3 or film<br>\$3)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/05<br>13:09 |
| S9  | 14193 | S4 S6   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/05<br>13:10 |
| S10 | 19844 | S7 S8   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/05<br>13:10 |
| S11 | 910   | S3 same S9 same S10   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/05<br>13:10 |
| S12 | 12156 | (giant or anisotrop\$5)<br>near5 (magnetoresist<br>\$4 or magnetoresistiv<br>\$3 or (magneto adj<br>resist\$4) or (magneto<br>adj resistiv\$3)) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/05<br>13:13 |
| S13 | 3839  | S9 same S10   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/05<br>13:13 |
| S14 | 156   | S12 same S13  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/05<br>13:13 |
| S15 | 42    | ((pt near1 mn) or (fe<br>near1 mn) or (ni near1<br>mn)) with S4   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/05<br>13:32 |

|     |      |                                |   |    |    |                     |
|-----|------|--------------------------------|---|----|----|---------------------|
| S16 | 6119 | 428/900.ccls.                  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/05<br>15:17 |
| S17 | 1    | "6111782".pn. and thick<br>\$4 | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/05<br>15:38 |
| S18 | 2    | "6111782".pn.                  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/05<br>16:32 |
| S19 | 1    | gmr and S18                    | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/05<br>16:32 |
| S20 | 1140 | 324/252.ccls.                  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/05<br>16:42 |
| S21 | 1285 | 324/249,207.21.ccls.           | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/05<br>16:42 |
| S22 | 8184 | S20 S21 S16                    | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/05<br>17:56 |
| S23 | 3845 | S3 and S9 and S10              | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/05<br>17:57 |

|     |     |                                     |   |    |    |                     |
|-----|-----|-------------------------------------|---|----|----|---------------------|
| S24 | 393 | S22 and S23                         | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/05<br>17:58 |
| S25 | 204 | S12 and S24                         | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/05<br>17:58 |
| S26 | 1   | "5432734".pn. and nm                | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/05<br>19:13 |
| S27 | 2   | "5159513".pn.                       | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/06<br>13:01 |
| S28 | 0   | "6172859".pn. and<br>(giant or gmr) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/06<br>13:20 |

3/ 6/ 08 3:30:29 PM